	σ	1 /	ic	7	
1	VO	1 2	2003	C 26 37	
THE STATE OF THE S	8 TF	ADE	MARK		

In th United States Patent and Trad mark Offi e

Serial Number:	10/658476				
Appn. Filed:	9.9.03		·		•
Applicant(s):	WILLIAM FREDERIG	CK FATHAUER	, TR.	-	~
Appn. Title:	SOLE INVENTOR	2			
Examiner/GAU:					•
		Mailed: _	11.4.03		•
		At:	SCOTTSDALF,	AZ.	

Information Disclosure Statement

Commissioner of Patents and Trademarks Washington, District of Columbia 20231

Sir:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon.

Following are comments on any non-English-language references pursuant to Rule 98:

ENCLOSED IS INFORMATION DISCLOSURE STATEMENT ON MY PATENT APPLICATION ENTITLED "PATENI

SUTURE APPARATUS AND METHOD FOR STERNAL CLOSURE

FILED 9.8.03.

I AM AWAITING SERIAL NONBER ETC.
(EXCUSE ME-FOUND IT)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-90) PATENT AND TRADEMARK OFFICE								Į.	J.S.	DEPARTMEN	T OF COMMERCE DEMARK OFFICE	ATTY. DOCKET NO. SERIAL NO.					
	(REV. 7-00)											10/658476					
	STOF PRIOR ART CITED BY APPLICANT O(Use several sheets if necessary)											WILLIAM FREDERICK FATHAUER, JR.					
Ty 1	2 2003		Jse several sneets it necessary)							necessary	-	9.9.03	GROUP				
	é	F									U.S. PATENT	DOCUMENTS			<u>,</u>		
(BAD	TAL		DOCUMENT NUMBER				186	R	DATE		NAME CLA		SUBCLASS	FILING DATE IF APPROPRIATE			
		AA	5342397					9	7	1994	RONALD	GUIDO					
							2	1992	PHILIPPE	PROU							
		AC							5	2001	SANSEL	SCOTT					
							7	1999	ALEX WO	JCECHOWKZ							
AE 2 0031						3	1	5	3	947 -		EKI TOMOAKI					
		AF	6	3	0	2	8	9	9	2001	WAYNE	CRIFFIN ET, AL					
		AG	6	b	5	,	0	Ó	7	2000	77204 (CHAPMAN					
		АН	6	þ	3	Ø	4	1	0	2000		ZURBRUEGG					
		ΑI	4	7	3	Ø	6	I	5	1488	ALFRED	VASCONCELLOS					
		ΔJ	2	þ	6	3	0	8	3	694 -	-2003 ARCI	HIBALD MILLER					
		AK								,					<u> </u>		
			·								FOREIGN PATE	NT DOCUMENTS					
			DOCUMENT NUMBER DATE						ER	DATE			CLASS	SUBCLASS	TRANSLATION YES NO		
-		AL	565966 194				6	1944									
-		AM	0	Τ.		Π.				,,,,,,	EP						
-				<u>~</u>	<u></u>					PRIOR AR	(Including Author	r, Title, Date, Pertinent Pa	ges, Etc.)			
		ΔR															
		AK						_									
					·····												
		AS			,-												
E)	AMINE	R		4		-						DATE CONSIDERED					
-								_				is in good	EP 609 - D	raw line throu	gh citation	if not	
°E	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.																

USCOMM-DC 80-3985

Information disclosure statement

The search has been conducted by computer using the U.S patent and trademark office's web site, dating from 1976 to the present, the IBM sponsored site dating from 1971 to the present and the European site, espacenet, dating from 1920 to the present. Since sternotomy procedures in significant numbers date from the early 1950s, the time frames for search seem adequate.

The prior art patent literature discloses a number of surgical devices relating to the present search, including surgical needles, surgical sutures as well as methods and apparatuses designed to close a surgically divided sternum, all of which seem to differ substantially from the art disclosed in the present patent application.

Note, for example U.S. patent no.5,342,397 entitled CUTTING ~ EDGE AND TAPERCUT NEEDLES HAVING A BLUNT TIP. That disclosure describes a needle for cutaneous (non boney) tissues,designed specifically to protect the operator's hand from needle puncture.

U.S. patent no, 5,089,012 entitled SURGICAL SUTURE, IN PATICULAR FOR STERNOTOMY CLOSURE discloses a typical prior art monofilament surgical suture, incorporating a single ,curved surgical needle.

G.B. patent no. 565,966 entitled IMPROVEMENTS IN OR RELATING TO SURGICAL SUTURES discloses a suture formed from a

metallic material, hardened, tempered and sharpened at one or both ends, thus forming an integral suture:needle.

Two separate patents, EP 0694288 and U.S. 6,206,755 describe similar methods of manufacture of needles with blunt tips. Both methods involve placing sharpened needles into an abrasive, tumbling medium, whereby they are transformed into blunt tipped needles. No mention is made of the production of straight needles or of production of needle tips of a precise diameter.

U.S patent no. 5,968,07 entitled DOUBLE WIRE STERNOTOMY SUTURE discloses a wire suture with first and second ends. A first end is connected to a curved surgical needle. A second end is welded to a side of the suture near the needled end, comprising a loop. On passage through the sternal edges, a double suture results, providing greater strength as well as other advantages.

U.S. patent no. 2,003,153,947 entitled STERNUM SUTURE MATERIAL AND ITS MANUFACTURING METHOD discloses methods of manufacture of either metallic or bioabsorbable woven suture with straight surgical needles. It further discloses a method for passage of the sutures through the sternum, whereby the sternum is retracted upward, using a hook type retractor and a piercing tool is used to make holes for suture passage. The needles and sutures are then passed through the holes.

U.S. patent no. 6,302,899 entitled SYSTEM, METHOD AND APPARATUS FOR STERNAL CLOSURE discloses a system for sternal

closure, whereby a grommet is inserted into the sternum on each opposing side, at the site for proposed suture placement. The sutures are then passed through the grommets, thereby reinforcing the sternal closure.

U.S. patent no. 6,051,007 entitled STERNAL CLOSURE DEVICE AND INSTRUMENTS THEREFOR discloses a device comprising paired clamps and paired grasping members which are slideably connected through tubular portions with locking capability, thereby holding the sternal edges in opposition.

U.S. patent no. 6,030,410 entitled STERNAL CLOSURE TECHNIQUE AND KIT FOR PERFORMING SAME discloses a method to reenforce each trans-sternal wire suture utilizing staples placed into the sternum at each site of proposed suture placement. The sutures are then placed in a position lateral to the staples to thereby reenforce the closure.

U.S. patent no. 4,730,615 entitled STERNUM CLOSURE DEVICE and U.S. patent no. 2,003,083,694 entitled METHOD AND APPARATUS FOR CLOSING A SEVERED STERNUM are rather large and somewhat complicated devices that bear no similarity to the invention being disclosed. They are included for sake of completeness and copies of their abstracts are included for your review.

Insofar as understood, none of the disclosed prior art appears to teach, hint or suggest an apparatus with the capability of positioning a unique suture in a position beneath the sternum while concurrently driving a unique, straight, blunt tipped surgical needle through the sternum,

whereby the needle and suture become lockably engaged, thus permitting extraction of the suture to the top surface of the sternum.